

Technical Data Sheet

Schulamid 66 GF 43 RN HSL-31 BLACK



Polyamide 66

Product Description

43% glass fiber reinforced, Polyamid 66

Processing Method Injection Molding

Filler/Reinforcement Glass Fiber, 43%

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------------|-------------|
| Physical | | | |
| Melt Volume Flow Rate, (275 °C/5.0 kg) | 25 | cm ³ /10 min | ISO 1133 |
| Density, (Method A) | 1.49 | g/cm ³ | ISO 1183 |
| Viscosity Number | 145 | cm ³ /g | ISO 307 |
| Mechanical | | | |
| Tensile Strain at Break, (Type 1A, 5 mm/min) | 3.0 | % | ISO 527-2 |
| Flexural Modulus, (2.0 mm/min) | 12200 | MPa | ISO 178 |
| Tensile Stress at Break, (Type 1A, 5 mm/min) | 215 | MPa | ISO 527-2 |
| Tensile Modulus, (1 mm/min, Type 1A) | 13500 | MPa | ISO 527-1 |
| Flexural Stress | | | |
| (2.0 mm/min, 3.5%) | 325 | MPa | ISO 178 |
| (2.0 mm/min, 4.0%) | 330 | MPa | ISO 178 |
| (2.0 mm/min, 4.0%) | 335 | MPa | ISO 178 |
| Impact | | | |
| Charpy Impact Strength - Notched | | | |
| (23 °C, Type 1, Edgewise, Notch A) | 15 | kJ/m ² | ISO 179 |
| (-30 °C, Type 1, Edgewise, Notch A) | 10 | kJ/m ² | ISO 179 |
| Charpy Impact Strength - Unnotched | | | |
| (23 °C, Type 1, Edgewise) | No Break | | ISO 179 |
| (-30 °C, Type 1, Edgewise) | No Break | | ISO 179 |
| Thermal | | | |
| Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise) | >250 | °C | ISO 75-2/B |
| Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise) | >250 | °C | ISO 75-2/A |
| Flammable | | | |
| Burning Rate | | | |
| (2.00 mm) | 30 | mm/min | ISO 3795 |
| (2.00 mm) | 30 | mm/min | FMVSS 302 |
| Injection Parameters | | | |
| Drying Time | 3.0 to 4.0 | hr | |
| Drying Temperature | 80 | °C | |
| Suggested Max Moisture | 0.040 to 0.10 | % | |
| Processing (Melt) Temp | 280 to 300 | °C | |
| Mold Temperature | 60 to 120 | °C | |